

Dissertation  
On  
The use of Spiders web  
In the cure  
of  
Intermittent Fever.

1. Spiders web. in Interm.
2. Scab. Cornutum
3. Salspium Acutum
4. Charcoal - med: virt. of
5. Cort. Querc. -
6. Polygala Senega
7. Ranthox: fraxinifol.
8. Camphire

Dr. Broughton  
1<sup>th</sup> Carolina  
1818

Dear Sir

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To you  
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I have to deduce

Nathaniel Chapman. M. D.

Dear Sir

During your lectures delivered in the University of Pennsylvania for the Year 1817 you mentioned the use of the Spider web in the cure of Intermittent fevers as communicated to you by Dr Jackson.

In consequence of which I have endeavoured to investigate the Subject, and <sup>my</sup> <sup>endeavour</sup> hope have not been fruitless.

To you I am indebted for the Idea which first induced me to make the investigation, and to you I beg leave to dedicate the products.

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## Preface

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As the subject of the following dissertation is (I believe) but little known by the Physicians of the present day, a few preliminary observations, I consider not improper or unnecessary. The laws of this institution compel me in the first place to compose a medical thesis, and a desire in the second to furnish a subject not already fully discussed induced me to make choice of the present. I am aware of the many difficulties I labour under in consequence of the little information that can be obtained from authors, the greater part being collected from my own observations. The verbal communications and friendly letters of those of my acquaintances who have had it in their power to gain any information on the subjects

From the operation and efficacy of the act as appeared under my observations, I am persuaded that many useful theses and arguments might be deduced from it. But as I feel myself incompetent to the task, I shall state facts as they are, and leave the discussion of theories and arguments to some abler pen.

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In order to give a correct & systematic account of the cobweb I shall proceed to state first, the nature and appearance, 2<sup>d</sup> the modus operandi and 3<sup>d</sup> its application and efficacy in the cure of intermittent fever.

1<sup>st</sup> As no medical information can be obtained from an account of the structure of the web, and the use it is applied to, by the insect which nature formed for its production. I shall refer you to the Encyclopedia, under the head Araneæ and proceed myself to the discussion applicable to medical purposes.

The web is found in the neighbourhood of old buildings among the leaves and branches of shrubs, or suspended from trees in the form of a delicate net work; where it is deposited in great abundance from the first of September to the middle of October. The fresh web, before it has been long exposed to the action of the sun & almost where is extremely glutinous and when pressed together by the fingers or rubbed in a mortar, assumes a black appearance resembling India rubber in texture & elasticity, which however it soon loses becoming hard and fibrous, if it is allowed to remain for the space of

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two or three days after it has been spun it is completely deprived of its glutinous quality and the fibres cannot be made to adhere except by the addition of some gummy matter, Gum Arabic answers this purpose.

When dried it is extremely light of a greyish colour without taste or smell, and has much the appearance of threads of very fine silk matted together.

This is by far the most usual appearance, as it is very difficult to collect a sufficient quantity of the fresh webs, each web containing not more than one or two grains; and if not collected previous to the third day after it is spun, it will be deprived of its gluten and consequently reduced to the same form.

Before I enter upon the description of the preparations of the web and of the species of spiders supposed to be most efficacious I shall insert an extract from <sup>Notes</sup> Dr Caldwell, in the first lines of Cullen's practice, I am perhaps premature but upon consideration the present appeared the best place for its insertion.

A remedy now becoming fashionable in Great Britain in the cure of this complaint and supposed to be efficacious above all others is the spiders web in doses of from two to four grains

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a. later during the paroxysm it shrinks it, & before it returns it  
 vol. is said that an alkaline salt resists more than two or three  
 repetitions of it, it is usually administered in the form of  
 full previously to the expected attack,  
 The species of spider whose web is most efficacious are  
 are unable to designate, Calverley's follow vol 1<sup>st</sup> 24<sup>th</sup> Page

This account I have found strictly correct with the excep-  
tion of the dove; the degree of which I have mentioned in its  
proper place.

Chief Sigs. With regard to the preparation of the test for medical use the Mollusca is extremely limited; it being insoluble in water. Sulphuric, or even the human saliva, it is impossible to prepare it either in form of decoction, infusion or tincture; on consequence of the gluten of the test, and the hard like structure of the test it is equally difficult to reduce to powder; the only possible, from therefore is that of Ball, to which it can easily be reduced when fresh without the use of any other article, and when dried, in the addition of starch, bread, or Gum Arabic, the latter I have found more efficacious, a sufficient quantity of the Mucilage being added to form a Symp.

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scribed by the words  
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that we were  
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We are the light of  
the world.

species. The Black spider has been supposed by Dr. R. Sames to be the most efficacious, ~~and the same~~ and the same opinion has been advanced by Dr. Roy as of Charleston S<sup>c</sup> Carolina (as will be mentioned in the sequel).

But opinion I think can never state to be incorrect and am satisfied that facts & arguments can be produced sufficiently strong to prove the assertion. Upon examination of the webs of the various species of spiders I found them all in the recent state possessed of the same glutinous quality, and when dried of the same linear structure.

A very peculiar substance appears necessary for the formation of the web which ensnares the prey of the insect and that the web of every species was equally calculated for this purpose;

This fact therefore being established that the webs of every species was the same both in appearance and utility, I am inclined to believe that like the Chyle of the Human system every substance taken into the stomach of the insect without regard to species produce one homogeneous mass qualified for every purpose, which the web of any one species may be applied to.

[illegible]

definition & concept to be theoretical, and perhaps convenient.  
but we are also just observing, which I shall now con-  
sider. Having had some opportunities of the  
effect - the use is indeed finding it difficult to pro-  
duce the production of any one species, I collected -  
carefully, and was pleased to find it in more than one instance  
productive of the best effects; another fact which I collected  
from the Encyclopaedia under the head Araneus, is equally  
important. It is there stated that a every species of Araneus  
near changes its colour & size according to age, sex, and  
seasons; so that the black Spider in one month and the  
black Spider in another, though in appearance the same  
may be distinct species. With this I shall conclude  
this part of the description, & proceed to that next in order.

The *Modus operandi* is the point next in question:  
a point of importance; which importance creates considerable  
regret, that I shall not have it in my power to give  
that information which my own inclination would prompt me  
the nature of the subject demand. But as every article  
of the *Materia Medica* was not developed in a class, & the  
operation of each must be improved by time and observation





The obscurity of the subject & the caution necessary to be attended  
to in all articles of experiment, I hope will be a sufficient ex-  
cuse for the unsatisfactory account of the operation of the  
operculum uel. In all the cases of disease which I have  
seen or heard of the exhibition of the uel. is sensible, or  
at least a trifling operation even is observed: some faint  
tinctures even sometimes of a slight stuporific, and  
some a nauseating effect: and one or two thought that  
it proved cathartic after remaining in the system, for  
the space of twelve or fifteen hours. These accounts  
being so inconsistent, I determined to ascertain  
(if possible) the correct operation by giving the uel. to heat-  
ed persons, I accordingly chose healthy adults, and  
exhibiting the uel. I retained the Patients in order care-  
fully to observe any operation that might occur, the Pulse  
being timed, & the Patients kept in a recumbent posture.

I found from these experiments that the opera-  
tion of the uel. appeared principally to be upon the  
arterial system; and perhaps in less time than any action  
already known. The Force & frequency of the Pulse being  
uniformly reduced; in some cases ten in others fifty

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in a minute, and in one case the state, from being tolerable, became very small, and very compressible all which, without the pain within the space of two hours, of the which, however, the most gradual, requires its former size and frequency. The most severe the early invasive effects, only remove all their appearing, but Unmolested.

It is the use of sedatives and stimulants not been necessary, as after three years we have to pass it over in silence.

Dose. Dr. Sydenham informed me that he gave the rect in doses of twenty grains. I think a small state and twelve to twenty grains to an adult to be with some use efficacious. The usual time, exhibiting the rect is not an hour previous to the attack.

### *Application & efficacy in Intermittent Fever.*

A gentleman of veracity informed me that he had used the rect with the best effect in the case of a servant of his who had been troubled with an Intermittent fever for the space of eighteen months. All the evacuations usually employed were used, and Puvian bark in large quantities

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in every  
complete case  
11 dec. 1881

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about 10 years old

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was inefficacious; at length being informed of the web, he  
gave it every day before the expected attack, which produced  
a complete cure in the space of one week.

A second & a third case occurred which he treated in the  
same manner and with the same success.

He informed me that Dr. Pons was the gentleman  
to whom he was indebted for his information. & being myself  
acquainted with the Dr. I wrote & received the following answer  
to Dr. P.

"I have to acknowledge the receipt of your letter  
respecting the spider web. it is now near twenty years  
since I was engaged in the Practice of Medicine, during  
which I made use of the web in cases of Intermitting fever.  
after the usual evacuations had been used and when the  
fever was undiminished or increasing. I used a new  
thread some time before an expected attack and  
found it most efficacious. I used it also in some  
of the Rheumatic cases. but think that the web is more  
efficacious in the former than in the latter cases."

Yours &c

Ch. C.

Sept 18 1798

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but having received a more distinct communication  
 from the late Mr. Medical Gentlemen of the Society  
 in the year 1798, I was enabled to make a more  
 full and complete experiment in the use of the  
 same, &c. I was a graduate of the University  
 of Pennsylvania and a Practitioner in the same  
 and attended me with the following account.

Dear Sir

According to your request I send you  
 an account of two cases in which I exhibited the Ste-  
 adfast web, two Negroes had had Intermittent Liver  
 disease, one was accompanied with violent head ache.  
 one of them complained of the pain being more severe  
 during the intermissions. Emetics and cathartics had  
 been given during the paroxysm and Bala during  
 the intermissions but still every evening it returned.  
 finding the disease still continued I gave them the qu-  
 inid. with each 3 pills containing 4 grains were exhibited  
 just before the chills came on which had the effect of short-  
 ning the fit considerably, 5 pills containing 4 grains  
 were given to each at the next paroxysm which had the

I have it  
and will give  
it to you



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spect of complexity, justifying a rel. to it disease.

Yours Truly

Henry H. Holmes.

A short time after I received the following letter from  
Dr. Hays a graduate of the Universities of Edinburgh  
and a Practitioner of Medicine in Montreal, 't' Cant =

Dear Sir

When at Cordasville the other day, you  
told me if I knew anything respecting the Medical  
virtues of the colubel; it appears like many others  
which have had their advocates for the day, to fall  
into disuse, as I have never seen any thing men-  
tioned of it but in the older Authors - As you may  
not have it in your power to conduct some ex-  
periment and wishing to further your views on the subject  
I have sent you an extract from Dr. Linnæus Dispensa-  
tory published in 1764, wherein the Spider  
both the spider and the web are used. the spider is said  
to cure the paroxysm of fevers, if it be applied to the  
Pulse of the wrist or the temples, but peculiarly recom-  
mended against a quartan being enclosed in the web for

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Memorandum

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Hassell notes the web astinges and agglutinates the things it a  
 salivary, contains feeding and prevents an inflammation  
 in country people have a tradition that a small quantity  
 of spiders web, given about an hour before the fit of an ague  
 and repeated immediately before it, is effectual in curing the  
 troublesome sometimes obstinate distempers. This remedy is  
 confined to our own country and I am well informed that  
 the Indians about North Carolina have great dependence on  
 this remedy for Agues, to which they are much subject,  
 and I am acquainted with a gentleman, long resident in  
 those parts, who assures me, he was himself cured by it of  
 that distemper, and indeed experience confirms the effi-  
 cacy of this medicine in the cure of Agues.  
 All that I find in his Materia Medica, pub<sup>d</sup> in 1761  
 on the subject is, *Uranarium Solis*, Collected - These  
 are applied by the common people for stopping bleedings  
 of wounds, which they effect not by any styptic power,  
 but by adhering to the part and closing the orifices  
 of the vessels - Cullen in his Materia Medica makes no  
 mention of the spider or its web - Neither can any  
 information on the subject be obtained from the

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(Sufficiently new Dispensatory) as edited by Guncand, vol.  
 no 1842).

I remain yours with regard  
 to the 11. 1842

A short time after this I had an opportunity of trying  
 the effect of the use in the following case.

Miss Miller, her aged 40 a native of S. Carolina was  
 attacked on the twentieth day of July 1817 with an im-  
 mense fever of the Quotidian type, rather feeling  
 confidence in her own skill, or not sufficient in  
 that of her Physician; Medical aid was not appli-  
 ed, and she attempted her own cure. The treat-  
 ment as well as I could learn (and did not witness  
 myself) was as follows: Antimonial and other  
 emetics, purgatives, both saline and vegetable, and  
 Serravallo's Bark alone and combined with Sarsaparilla.  
 These proceeding undisciplined a variety of empiri-  
 cal prescriptions were resorted to without the least  
 effect, one of which however contained a sufficient  
 quantity of some mercurial preparation as to pro-  
 duce the "wounds" the patient labouring under the

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operation of these various articles of the Materia Medica, and experiencing no relief, was determined by taking no more medicine to allow the disease to wear itself out, with the prospect of a winter remanifestedious and uncomfortable by the effect of discaide, This brought her to the 28<sup>th</sup> of August 1817 when being informed of her situation I visited and recommended the web which after some persuasion she consented to try, I prepared a few pills containing each 4 grains of the sal, with directions to take three every day, an hour before the expected attack, for the first three days, after which if the fever was not checked to increase the dose to four pills. On the 31<sup>st</sup> she took the first with the effect of shortening the chills springing on the hot stage, on the first of September the second dose was taken, the chills was completely lost and the fever postponed some hours, on the second of Sept. the third dose was exhibited, the fever that day was found ~~that day~~ to be comparatively slight, attended with no chills, and of short duration, on the third

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4 Sept. four Pills were given and the fever did not return, the Patient was relieved in four days of an Intermittent of six weeks duration, which had baffled the strength of several of the most useful articles of the *Materia Medica*.

I exhibited the *art* in several cases, but in consequence of some Patients exposing themselves to night air and an unhealthy atmosphere, and others not taking it regularly, the article had not a fair trial and I have omitted their insertion.